

Appl. No. 10/644,718

Reply to Non-Final Office Action of November 3, 2006

Amendments to the Specification:

Please replace paragraph [0013] with the following amended paragraph:

The voltage divider 251 can create a voltage drop across the voltage divider 251. Moreover, when an ESD voltage pulse is applied to the Vcc1 terminal and coupled to the input terminal 252 of the sensor 250, a high state voltage is generated at the output terminal 258 of the sensor 250 [this sentence is a bit confusing]; whereas when the Vcc1 terminal is under normal operation, a low state voltage is generated at the output terminal 258 of the sensor 250. The high or low state voltage means, for example, that the voltage can turn on or off a transistor. The voltage divider 251 can be, for example, a series of diodes, a resistor, transistors or any other equivalent circuits that can substantially perform the same function of the voltage divider 251. In some embodiments, if the voltage divider 251 is a series of diodes, the number of the diodes depends on the operation voltage of the Vcc1 terminal. If the voltage of the Vcc1 terminal is 3.3V, the series of diodes may have about 6 diodes. When the voltage of the Vcc1 terminal is 2.5V, the series of the diodes has about 5 diodes. Accordingly, one of ordinary skill will understand that a desirable diode number for the voltage divider 251 depends on the operation voltage of the Vcc1 terminal. In some embodiments, the series of diodes can have, for example, about 3 to about 8 diodes.